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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH ADMINISTRATION
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

INSECT TEST SURVEY

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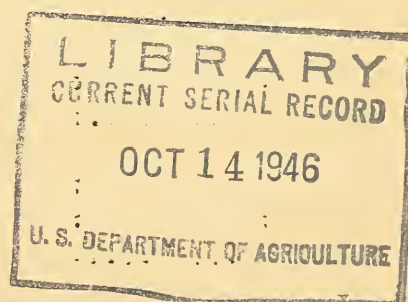
* HESSIAN FLY SURVEY AT HARVESTTIME 1946

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Field surveys made by the Bureau of Entomology and Plant Quarantine in cooperation with State agricultural agencies of Kansas, Oklahoma, Nebraska, Iowa, Missouri, Illinois, Ohio, New York, Pennsylvania, and New Jersey indicate that hessian fly infestations are low in California, western and southern Nebraska, western Kansas, northwestern Oklahoma, eastern Missouri, Iowa, Arkansas, northern Illinois, northern Ohio, New York, Pennsylvania, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, and Georgia. Infestations are moderate in northeastern Colorado, northeastern Nebraska, north-central and northeastern Kansas, north-central Oklahoma, northwestern and southwestern Missouri, central and southern Illinois, and Michigan. Infestations are heavy in south-central and southeastern Kansas, northeastern Oklahoma, west central Missouri, Indiana, southern Ohio, Kentucky, and Tennessee.

A close observance of the safe-seeding dates is recommended for the areas of moderate and heavy infestations.

The data summarized in the following table, and the accompanying map, indicate more fully the regions covered by the survey and the general trend of infestations. A field sample in the survey usually consisted of 50 wheat stems.



Hessian fly survey at harvesttime 1946

Area	Fields sampled	Stems infested		
		Average	Maximum	Minimum
	Number	Percent	Percent	Percent
California ^{1/}	58	0.1	4	0
Colorado:				
Northeastern.....	9	13.7	28	2
Nebraska: ^{2/}				
Northwestern.....	7	3.7	20	0
Southwestern.....	23	1.9	30	0
South-central.....	20	0.3	2	0
Northeastern.....	33	12.4	58	0
Southeastern.....	142	5.0	46	0
Kansas: ^{2/}				
Northwestern.....	18	1.6	6	0
Southwestern.....	44	0.04	2	0
North-central.....	82	10.6	82	0
South-central.....	59	21.9	78	0
Northeastern.....	104	14.2	78	0
Southeastern.....	71	20.1	82	0
Oklahoma: ^{2/}				
Northwestern.....	20	0.1	2	0
North-central.....	38	11.6	34	0
Northeastern.....	38	23.3	90	0
Iowa: ^{2/}				
Northwestern.....	9	0.2	2	0
Southwestern.....	14	0.8	10	0
South-central.....	1	0.0	0	0
Missouri: ^{2/}				
Northwestern.....	36	10.3	42	0
West-central.....	45	22.8	90	0
Southwestern.....	46	13.3	46	0
Eastern.....	27	4.4	40	0
Arkansas:				
Northwestern.....	17	6.3	16	0
Illinois: ^{2/}				
Northern.....	24	1.0	8	0
Central and southern	189	13.5	59	0
Michigan:				
Southern.....	62	12.6	100	0

Hessian fly survey at harvesttime 1946--Continued

Area	: Fields	Stems infested		
	: sampled :	Average :	Maximum :	Minimum
	: Number :	Percent :	Percent :	Percent
Indiana.....	: 457	: 19.6	: 74	: 0
Ohio: ^{2/}	:	:	:	:
Northern.....	: 123	: 5.5	: -	: -
Southern.....	: 134	: 17.9	: -	: -
Kentucky:..	:	:	:	:
Western.....	: 40	: 35.2	: 76	: 2
Eastern.....	: 31	: 24.2	: 70	: 2
Tennessee:	:	:	:	:
West-central.....	: 42	: 26.8	: 66	: 0
South-central and east:	: 65	: 21.9	: 82	: 0
New York: ^{2/}	:	:	:	:
Western.....	: 38	: 2.5	: 8	: 0
Pennsylvania: ^{2/}	: 162	: 6.5	: 94	: 0
New Jersey: ^{2/}	: 59	: 7.9	: 38	: 0
Delaware.....	: 15	: 0.9	: 6	: 0
Maryland.....	: 62	: 3.1	: 20	: 0
Virginia.....	: 149	: 2.5	: 32	: 0
North Carolina:...	:	:	:	:
Central.....	: 89	: 1.5	: 12	: 0
South Carolina:	:	:	:	:
Western.....	: 46	: 2.2	: 18	: 0
Georgia:	:	:	:	:
Northeastern.....	: 35	: 2.4	: 12	: 0

^{1/} Not included on the map.

^{2/} In cooperation with State entomologists.

HESSIAN FLY SURVEY AT HARVESTTIME 1946 Numbers indicate percentage of stems infested. Cross-hatching indicates moderate to heavy infestation.

